

Table S1. List of included patients, demographical and clinical data, serotype-specific anti-CPS Ig concentrations and pneumococcal DNA load in plasma. Concentration of pneumococcal Spn9802 DNA in plasma was available only in 25 of the included patients from whom EDTA plasma samples had been collected during the acute-phase.

Patient No.	Age (years)	Gender	<i>S. pneumoniae</i> in blood culture	<i>S. pneumoniae</i> in sputum culture	<i>S. pneumoniae</i> in nasopharyngeal culture	Infecting serotype	Days between sample collection	Currently smoking	Comorbidity <sup>a</sup>	SOFA score increase	Symptom duration before acute-phase sample	Acute-phase anti-CPS Ig level (AU)	Convalescence anti-CPS Ig level (AU)	Plasma Spn9802 DNA concentration (copies/mL)
1	54	Male	Yes	Yes	Yes	3	45	No	No	1	2	7.9	24.8	-
2	71	Male	No	Yes	Yes	3	27	Yes	Yes	1	1	21.3	18.8	-
3	57	Male	Yes	Yes	Yes	9V	27	No	No	2	0	25.4	48.0	-
4	62	Male	No	Yes	Yes	9V	30	No	No	2	8	77.9	114.3	-
5	43	Male	No	Yes	Yes	18C	60	Yes	No	0	0	19.1	42.4	0
6	77	Male	No	Yes	Yes	23F	28	No	Yes	2	5	19.9	20.3	0
7	59	Male	No	Yes	No	19A	32	No	No	1	6	68.8	68.2	0
8	74	Male	No	Yes	No	3	25	No	Yes	3	2	17.4	28.8	1.8 x 10 <sup>2</sup>
9	39	Male	Yes	No	No	7F	81	No	Yes	3	3	21.2	50.8	0
10	31	Female	Yes	No	Yes	7F	46	No	No	0	2	14.7	86.5	0
11	59	Female	No	No	Yes	14	25	Yes	Yes	2	3	62.0	99.2	-
12	72	Female	No	No	Yes	19F	28	No	No	0	0	11.6	53.4	0
13	31	Female	No	No	Yes	7F	29	No	No	1	4	12.1	22.8	4.0 x 10 <sup>2</sup>
14	37	Male	No	Yes	Yes	4	28	Yes	No	1	2	37.8	56.9	-

15	62	Female	No	No	Yes	7F	28	No	Yes	4	0	57.3	79.7	-
16	67	Female	Yes	No	Yes	7F	38	No	No	3	5	124.1	356.5	-
17	74	Male	No	No	Yes	3	33	Yes	Yes	2	1	11.5	10.0	-
18	90	Female	No	Yes	Yes	14	31	No	Yes	2	8	13.4	53.9	0
19	87	Male	No	No	Yes	3	31	No	Yes	5	0	9.7	7.4	0
20	40	Male	No	Yes	Yes	1	30	Yes	No	4	4	64.1	192.7	-
21	41	Male	No	Yes	No	14	51	Yes	No	3	2	31.6	36.2	-
22	76	Male	No	No	Yes	14	31	No	No	5	8	50.7	62.5	-
23	60	Female	No	Yes	Yes	14	28	No	No	0	4	42.3	72.7	-
24	68	Female	No	No	Yes	14	81	No	Yes	0	21	15.7	18.2	-
25	89	Male	Yes	No	Yes	7F	58	No	Yes	3	7	102.8	81.7	$1.8 \times 10^4$
26	84	Male	No	No	Yes	18C	27	No	Yes	1	1	14.3	15.5	0
27	83	Male	No	Yes	Yes	4	38	No	Yes	2	1	24.1	66.4	0
28	89	Female	No	Yes	Yes	6B	38	No	No	2	36	16.2	6.0	-
29	57	Female	No	Yes	Yes	3	25	No	No	1	0	36.3	23.4	0
30	46	Male	No	Yes	Yes	3	69	Yes	No	1	7	91.2	88.9	0
31	88	Female	No	No	Yes	9V	33	No	Yes	4	1	26.5	29.9	-
32	72	Male	No	No	Yes	14	29	Yes	Yes	1	0	28.4	35.3	-
33	78	Female	No	Yes	Yes	19A	33	No	Yes	2	3	4.9	16.2	-
34	77	Male	No	Yes	Yes	14	30	No	Yes	3	0	90.5	251.7	0
35	76	Female	No	Yes	Yes	14	61	No	Yes	3	1	137.6	81.3	-
36	61	Male	Yes	Yes	Yes	1	29	Yes	Yes	2	2	21.5	22.5	-
37	54	Female	Yes	Yes	Yes	3	31	Yes	Yes	2	4	24.4	64.4	$4.5 \times 10^3$
38	54	Male	No	Yes	Yes	3	26	No	No	3	6	23.0	33.9	-
39	58	Female	No	No	Yes	3	34	Yes	No	2	10	43.4	49.6	$5.8 \times 10^2$

40	79	Female	Yes	No	Yes	9V	24	No	No	3	8	61.2	62.7	$3.0 \times 10^9$
41	54	Female	No	No	Yes	18C	28	No	No	0	5	10.8	11.3	-
42	69	Female	Yes	No	No	19A	31	No	Yes	4	3	29.2	3.3	-
43	85	Female	Yes	No	No	23F	29	No	Yes	3	0	7.7	17.8	0
44	84	Male	Yes	Yes	Yes	23F	82	No	Yes	1	4	48.1	42.4	0
45	89	Female	No	Yes	Yes	23F	74	No	Yes	1	1	78.8	139.3	-
46	73	Female	No	Yes	Yes	23F	26	Yes	No	2	11	71.0	93.0	-
47	85	Male	Yes	No	No	23F	20	No	No	3	3	6.0	16.3	-
48	73	Female	No	Yes	Yes	19F	30	No	Yes	3	3	68.2	128.2	0
49	83	Male	Yes	No	Yes	19F	26	No	No	3	6	28.9	20.3	$1.0 \times 10^{10}$
50	62	Male	No	Yes	No	7F	26	Yes	Yes	1	2	6.6	35.5	-
51	48	Male	No	No	Yes	3	22	Yes	No	1	6	82.5	111.8	-
52	91	Male	Yes	Yes	Yes	14	70	No	No	1	7	15.7	2.7	-
53	57	Female	Yes	Yes	Yes	7F	31	Yes	No	2	5	39.3	12.8	0
54	23	Male	No	No	Yes	7F	34	No	No	3	11	63.7	140.6	$6.2 \times 10^3$

<sup>a</sup>One or more of any of the following diagnoses: chronic obstructive pulmonary disease, heart disease, diabetes mellitus, liver disease, renal insufficiency, neoplasm, or immunosuppression.